Special Issue

Advances in Flexible Nanoelectronics

Message from the Guest Editors

Flexible nanoelectronics is an emerging area that combines electronic devices with advances in nanomaterials and nanotechnology. In recent years, electronic components have been endowed with smaller sizes, mechanically flexible, low weight and power consumption, and enhanced performance, with the aid of nanomaterials. By leveraging advancing nanotechnology, flexible nanoelectronics has shown promising applications in micro/nano energy harvesting, smart sensing systems, wearable biosensors, optoelectronics, energy conversion and storage, biomedical engineering, artificial intelligence, flexible and printable circuits, and many others. This Special Issue aims to present recent advanced progress in the design and applications of flexible nanoelectronics, including piezoelectric/triboelectric nanogenerators, smart sensor systems, electronic skins, flexible electrochemical biosensors, flexible batteries, optoelectronic devices, and thin-film transistors. We invite authors to contribute research articles and review articles on the latest advances in flexible nanoelectronics. We are looking forward to receiving your submissions!

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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